1024



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OIPE

RAW SEQUENCE LISTING DATE: 10/24/2002 PATENT APPLICATION: US/09/978,418 TIME: 14:51:34

Input Set : A:\SEQLIST-90ct2002.txt
Output Set: N:\CRF4\10242002\1978418.raw

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3 <110> APPLICANT: Bejanin, Stephan
             Tanaka, Hiroaki
      6 <120> TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
      8 <130> FILE REFERENCE: 142.US5.REG
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/978,418
C--> 11 <141> CURRENT FILING DATE: 2002-10-15
     13 <150> PRIOR APPLICATION NUMBER: 60/311,305
     14 <151> PRIOR FILING DATE: 2001-08-10
     17 <150> PRIOR APPLICATION NUMBER: 60/314,734
     18 <151> PRIOR FILING DATE: 2001-08-24
                                                                  ENTERED
     20 <150> PRIOR APPLICATION NUMBER: 60/318,204
     21 <151> PRIOR FILING DATE: 2001-09-07
     23 <150> PRIOR APPLICATION NUMBER: 60/326,470
     24 <151> PRIOR FILING DATE: 2001-10-01
     26 <160> NUMBER OF SEQ ID NOS: 52
     28 <170> SOFTWARE: JPatent
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     32 <212> TYPE: DNA
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     37 <222> LOCATION: 1..224
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    45 <222> LOCATION: 594..850
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     57 aagtggctag gaaggactac gggcctgtcc caccacacct ggctaatttt ttcatttttg 120
     58 tgtgtgggcg tgggggcagt cttgcccagg ctggtctgga actcctggcc tcaagtgatc 180
     59 ctcctccgtc aagatatgaa caggagtaca gctgtgtagt aaag atg cct tct ggt
                                                         Met Pro Ser Gly
    60
    61
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62 gaa ttt gca cgt ata tgc cga gat ctc agc cat att gga gat gct gtt

Input Set : A:\SEQLIST-90ct2002.txt
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63 Glu Phe Ala Arg Ile Cys Arg Asp Leu Ser His Ile Gly Asp Ala Val
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65 qta att tcc tqt qca aaa qac gga gtg aaa ttt tct gca agt gga gaa
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66 Val Ile Ser Cys Ala Lys Asp Gly Val Lys Phe Ser Ala Ser Gly Glu
                  25
                                      30
68 ctt gga aat gga aac att aaa ttg tca cag aca agt aat gtc gat aaa
69 Leu Gly Asn Gly Asn Ile Lys Leu Ser Gln Thr Ser Asn Val Asp Lys
                                  45
71 gag gag gaa gct gtt acc ata gag atg aat gaa cca gtt caa cta act
72 Glu Glu Glu Ala Val Thr Ile Glu Met Asn Glu Pro Val Gln Leu Thr
                              60
                                                  65
74 ttt gca ctg agg tac ctg aac ttc ttt aca aaa gcc act cca ctc tct
                                                                    476
75 Phe Ala Leu Arg Tyr Leu Asn Phe Phe Thr Lys Ala Thr Pro Leu Ser
      70
                          75
                                              80
76
                                                                    524
77 tea acg gtg aca etc agt atg tet gea gat gta ecc ett gtt gta gag
78 Ser Thr Val Thr Leu Ser Met Ser Ala Asp Val Pro Leu Val Val Glu
                      90
80 tat aaa att gcg gat atg gga cac tta aaa tac tac ttg gct ccc aag
                                                                    572
81 Tyr Lys Ile Ala Asp Met Gly His Leu Lys Tyr Tyr Leu Ala Pro Lys
                  105
                                      110
83 atc gag gat gaa gga tct taggcattct taaaattcaa gaaaataaaa
84 Ile Glu Asp Glu Glu Gly Ser
              120
86 ctaagetett tgagaactge ttetaagatg ceageatata etgaagtett ttetgteace 683
87 aaatttgtac ctctaagtac atatgtagat attgttttct gtaaataacc tattttttc 743
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99 Gly Asp Ala Val Val Ile Ser Cys Ala Lys Asp Gly Val Lys Phe Ser
                                                       30
                                   25
101 Ala Ser Gly Glu Leu Gly Asn Gly Asn Ile Lys Leu Ser Gln Thr Ser
103 Asn Val Asp Lys Glu Glu Glu Ala Val Thr Ile Glu Met Asn Glu Pro
                           55
105 Val Gln Leu Thr Phe Ala Leu Arg Tyr Leu Asn Phe Phe Thr Lys Ala
106 65
                       70
                                           75
107 Thr Pro Leu Ser Ser Thr Val Thr Leu Ser Met Ser Ala Asp Val Pro
                   85
                                       90
109 Leu Val Val Glu Tyr Lys Ile Ala Asp Met Gly His Leu Lys Tyr Tyr
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               100
111 Leu Ala Pro Lys Ile Glu Asp Glu Glu Gly Ser
112
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114 <210> SEQ ID NO: 3
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Input Set : A:\SEQLIST-90ct2002.txt
Output Set: N:\CRF4\10242002\1978418.raw

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133 <222> LOCATION: 826..831
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137 <222> LOCATION: 848..883
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141 totgagotoa gttgcagtao togggaagoo atg cag gat gaa gat gga tao atc
                                     Met Gln Asp Glu Asp Gly Tyr Ile
143
144 acc tta aat att aaa act cgg aaa cca gct ctc gtc tcc gtt ggc tct
                                                                       162
145 Thr Leu Asn Ile Lys Thr Arg Lys Pro Ala Leu Val Ser Val Gly Ser
                            15
147 gca tcc tcc tgg tgg cgt gtg atg gct ttg att ctg ctg atc ctg
                                                                       210
148 Ala Ser Ser Ser Trp Trp Arg Val Met Ala Leu Ile Leu Leu Ile Leu
                                            35
149 25
                        30
                                                                       258
150 tgc gtg ggg atg gtt gtc ggg ctg gtg gct ctg ggg att tgg tct gtc
151 Cys Val Gly Met Val Val Gly Leu Val Ala Leu Gly Ile Trp Ser Val
                    45
                                                                       306
153 atg cag cgc aat tac cta caa gat gag aat gaa aat cgc aca gga act
154 Met Gln Arg Asn Tyr Leu Gln Asp Glu Asn Glu Asn Arg Thr Gly Thr
                                    65
                60
                                                                       354
156 ctq caa caa tta qca aag cgc ttc tgt caa tat gtg gta aaa caa tca
157 Leu Gln Gln Leu Ala Lys Arg Phe Cys Gln Tyr Val Val Lys Gln Ser
                                                                       402
159 gaa cta aag ggc act ttc aaa ggt cat aaa tgc agc ccc tgt gac aca
160 Glu Leu Lys Gly Thr Phe Lys Gly His Lys Cys Ser Pro Cys Asp Thr
                            95
162 aac tgg aga tat tat gga gat agc tgc tat ggg ttc ttc agg cac aac
                                                                       450
163 Asn Trp Arg Tyr Tyr Gly Asp Ser Cys Tyr Gly Phe Phe Arg His Asn
                        110
                                            115
165 tta aca tgg gaa gag agt aag cag tac tgc act gac atg aat gct act
                                                                       498
166 Leu Thr Trp Glu Glu Ser Lys Gln Tyr Cys Thr Asp Met Asn Ala Thr
                                        130
                    125
167
168 ctc ctg aag att gac aac cgg aac att gtg gag tac atc aaa gcc agg
                                                                       546
169 Leu Leu Lys Ile Asp Asn Arg Asn Ile Val Glu Tyr Ile Lys Ala Arg
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Input Set : A:\SEQLIST-90ct2002.txt
Output Set: N:\CRF4\10242002\I978418.raw

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									Leu								
173			155		_	_		160			_		165				
174	qtc	tgg	aag	tgg	gag	gat	ggc	tcg	gtt	atc	tca	gaa	aat	atg	ttt	gag	642
175	Val	Trp	Lvs	Trp	Glu	Āsp	Gly	Ser	Val	Ile	Ser	Glu	Asn	Met	Phe	Glu	
176		170		•		-	175					180					
	ttt	tta	gaa	gat	qqa	aaa	qqa	aat	atg	aat	tgt	gct	tat	ttt	cat	aat	690
									Met								
	185			1		190	•				195		-			200	
		aaa	ato	cac	cct	acc	ttc	tat	gag	aac	aaa	cat	tat	tta	atg	tgt	738
181	Glv	Lvs	Met	His	Pro	Thr	Phe	Cvs	Ğlü	Asn	Lys	His	Tyr	Leu	Met	Cys	
182	011	2,0			205			- 4 -		210	•		-		215	•	
	gag	agg	ааσ	act		ato	acc	aaσ	gtg		caa	cta	cct	taai	tgcaa	aaq	787
									Val						,	,	
185	Olu	*** 9	275	220	011			-1-	225								
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													883				
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		GIII	ASP	GIU	Asp 5	GTÀ	тут	TIC	TIIT	10	ASII	116	пуз	1111	15	цуз	
196		31.	T	17 a 1	•	37.5.3	C1	Com	Ala		Cor	Cor	Пэсэ	Trn		V-1	
	Pro	Ald	ьeu	20	ser	val	GLY	261	25	361	261	261	1 1 P	30	nig	Vai	
198	Mat.	3 1 a	T 011		Tou	Tou	T10	LOU	Cys	Wal	Clar	Mat	Val		Glv	Leu	
	met	Ald		ire	ьeu	ьец	116	40	Cys	val	GLY	nec	45	Val	GLY	пса	
200	17-1	27.	35	C1	T1.	m~~	Cor		Met	Cln	λκα	λen		T.011	Gln	Acn	
	Val		ьeu	GLY	me	пр	55	val	Met	GIII	мгу	60	TÄT	пец	GIII	rsb	
202	C1.,	50	C1.	A a n	***	mbr		Whr	Leu	Gln	Cln.		בומ	T.ve	λτα	Phe	
203		ASII	GIU	ASII	AIG	70	GIY	1111	пеп	GIII	75	пси	Αια	цуз	nig	80	
		C1 n	Птт	17 - 1	W-1	_	C1 n	Car	Glu	T All	-	G137	Πhr	Dhe	T.v.c		
205	Cys	GIII	TAT	Val	85	пур	GIII	261	Gru	90	цуз	Gry	T 11T	1110	95	Oly	
	uic	Tuc	CTTC	cor		Cvc	A cr	Thr	Asn		λra	Tur	Пαл	Clv		Ser	
207	піъ	гуз	Cys	100	PIO	Cys	нар	1111	105	irp	Arg	TYT	1 J 1	110	nsp	501	
	Cvc	m	C117		Dho	λκα	иic	Nen	Leu	Thr	Trn	Glu	Glu		Tare	Gln	
210	Cys	тут	115	FIIC	FIIC	Arg	1115	120	пец	1111	**P	Giu	125	001	цуз	0111	
	m	Cura		N c r	Mo+	λαη	λla		Leu	LAU	Lvc	Tla		Acn	Δτα	Δen	
	TAT		TIII	изр	Met	ASII	135	1111	пец	пец	цуз	140	изъ	HSII	nrg	A311	
212	т1.	130	C1.,	M	T10	Tura		λνα	Thr	Ui c	Lou		λνα	Ψrn	Val	Glv	
		vai	GIU	TYL	116	150	Ата	Alg	1111	1113	155	110	ni 9	111	vai	160	
	145	C = m	A	C1 5	Trra		N a n	C1	17 - 1	m _{rr}		Trn	Clu	Nen	C117		
	ьeu	ser	Arg	GIN		ser	ASII	GIU	Val	170	пув	ттЪ	GIU	ush	175	261	
216	37 - 3	T1-	C = ~	C1	165	Wo.+	Dh a	~1.··	Dho		C1	λ c.~	C1 **	Tvc		λen	
	val	ше	ser		ASN	мет	rne	GIU	Phe 185	ьеи	GIU	АБР	сту	190	GTÅ	ASII	
218	Ma.t	3	a	180	Massa	Dhe	II.	7 0 5		T ***	Mot	ui c	Dro		Dho	Cuc	
	мет	Asn		Ala	тyr	rne	HIS		Gly	гÀг	мет	m15		THE	rne	Cys	
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Input Set : A:\SEQLIST-90ct2002.txt
Output Set: N:\CRF4\10242002\I978418.raw

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246 aacacaccaa ggaaaattaa tataggaaaa atttaaaaag ttattagagg actgaaaata	180											
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248 Met												
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250 gtc cag ctc cac cag gac aca gat ccc cag atc cct aaa ggt cag cca	285											
251 Val Gln Leu His Gln Asp Thr Asp Pro Gln Ile Pro Lys Gly Gln Pro												
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253 tgc acc ctg aac agc tca gag gga ggc agg cca gca gtg cct cac	333											
254 Cys Thr Leu Asn Ser Ser Glu Gly Gly Ala Arg Pro Ala Val Pro His												
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256 acc ttg ttc tct tct gct cta gac aga tgg ctc cat aat gac agc ttc	381											
257 Thr Leu Phe Ser Ser Ala Leu Asp Arg Trp Leu His Asn Asp Ser Phe												
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260 Ile Met Ala Val Gly Glu Pro Leu Val His Ile Arg Val Thr Leu Leu												
261 50 55 60 65												
262 ctg ctc tgg ttt gga atg ttt ttg tct att tct ggc cac tct cag gcc	477											
263 Leu Leu Trp Phe Gly Met Phe Leu Ser Ile Ser Gly His Ser Gln Ala												
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265 agg ccc tcc cag tat ttc act tct cca gaa gtg gtg atc cct ttg aag	525											
266 Arg Pro Ser Gln Tyr Phe Thr Ser Pro Glu Val Val Ile Pro Leu Lys												
20,	573											
268 gtg atc agc agg ggc aga ggt gca aag gct cct gga tgg ctc tcc tat	J/3											
269 Val Ile Ser Arg Gly Arg Gly Ala Lys Ala Pro Gly Trp Leu Ser Tyr 270 100 105 110												
	621											
271 agc ctg cgg ttt ggg gga cag aga tac att gtc cac atg agg gta aat 272 Ser Leu Arg Phe Gly Gly Gln Arg Tyr Ile Val His Met Arg Val Asn	V & I											
273 115 120 125												
273 115 120 123 274 aag ctg ttg ttt gct gca cac ctt cct gtg ttc acc tac aca gag cag	669											
2/4 day cly try the year cae con bet gry the acc tac aca gay cay	000											

VERIFICATION SUMMARY

DATE: 10/24/2002

PATENT APPLICATION: US/09/978,418

TIME: 14:51:35

Input Set : A:\SEQLIST-90ct2002.txt

Output Set: N:\CRF4\10242002\I978418.raw

L:10 M:270 C: Current Application Number differs, Replaced Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date